



**METROPOLITAN  
TRANSPORTATION  
COMMISSION**

Joseph P. Bort MetroCenter  
101 Eighth Street  
Oakland, CA 94607-4700  
Tel: 510.464.7700  
TDD/TTY: 510.464.7769  
Fax: 510.464.7848

## ***Memorandum***

TO: Arterial Operations Committee

DATE: January 31, 2002

FR: Christina Atienza

W.I.: 1234

RE: **Regional Traffic Signal Statistics**

Following are regional traffic signal statistics derived from a survey conducted in 1995 and the analysis of information provided by Bay Area jurisdictions in connection with the Arterials Inventory and Database project, as assembled in the Traffic Signals Database.

<b>Signal Statistics by County</b>				
County	No. of Signals in 1995	No. of Signals in 2000	Average Increase in No. of Signals per Year	Caltrans-Owned Signals in 2000
Alameda	1,242	1,642	80.0	212
Contra Costa	657	918	52.2	122
Marin	124	212	17.6	42
Napa	26	82	11.2	38
San Francisco	1,025	1,081	11.2	14
San Mateo	338	571	46.6	211
Santa Clara	1,236	1,780	108.8	162
Solano	233	304	14.2	57
Sonoma	232	377	29.0	67
<i>Entire Region</i>	<i>5,113</i>	<i>6,967</i>	<i>370.8</i>	<i>925</i>

<b>Statistics on Interconnection</b>		
No. of Interconnected Signals	4,005	57%
No. Not Interconnected	2,962	43%
<b>Statistics on Coordination</b>		
No. of Coordinated Signals	3,676	53%
No. of Uncoordinated Signals	3,291	47%
No. $\leq$ ¼ mi. of Another Signal	2,109	
No. $>$ ¼ mi. from Another Signal	1,182	

<b>Statistics on Traffic Signal Systems</b>		
Not Part of a System (Isolated)	3,463	50%
Part of a Closed Loop System	1,740	25%
Part of a Centralized System	1,764	25%
<b>Statistics on Controller Types</b>		
170/2070	2,215	32%
NEMA	2,562	37%
Other	1,013	15%
Unknown	1,117	16%

In addition to the above summaries, a breakdown of the number of traffic signals by jurisdiction is provided in the following table. It should be noted that all of the data provided herein is for informational purposes only.<sup>1</sup>

---

<sup>1</sup> Disclaimer

Users should know that, for several reasons, the Subject Data may be inaccurate, incomplete, or out of date. For these reasons, MTC can assume no responsibility for inaccuracies, and Users are cautioned to use the data accordingly. The Subject Data are provided “as is.” If users find any errors or inaccuracies, they are encouraged to notify MTC.

MTC shall not be held liable for any improper or incorrect use of the Subject Data and assume no responsibility for anyone's use of the information. In no event shall MTC be liable for any direct, indirect, incidental, special, exemplary, or consequential damages (including, but not limited to, procurement of substitute goods or services; loss of use, data, or profits; or business interruption) however caused and on any theory of liability, whether in contract, strict liability, or tort (including negligence or otherwise) arising in any way out of the use of the Subject Data, even if advised of the possibility of such damage. This disclaimer of liability applies to any damages or injury, including but not limited to those caused by any failure of performance, error, omission, interruption, deletion, defect, delay in operation or transmission, computer virus, communication line failure, theft or destruction or unauthorized access to, alteration of, or use of record, whether for breach of contract, tortious behavior, negligence or under any other cause of action.

The Subject Data were created solely for MTC's internal purposes. MTC assumes no responsibility to maintain the Subject Data in any particular manner or form, or to convert the Subject Data to another format as may be requested by any entity. Although the Subject Data have been produced and processed from sources believed to be reliable, no warranty expressed or implied is made by MTC regarding accuracy, adequacy, completeness, legality, reliability or usefulness of any information. This disclaimer applies to both isolated and aggregate uses of the information. MTC provides this information on an "as is" basis. All warranties of any kind, express or implied, including but not limited the implied warranties of merchantability, fitness for a particular purpose, freedom from contamination by computer viruses and non-infringement of proprietary rights ARE DISCLAIMED. Changes may be periodically added to the information herein; these changes may or may not be incorporated in any new version of the publication. Data can also quickly become out of date. The Subject Data should not be considered authoritative for navigational, engineering, legal, or other site-specific uses.

**BAY AREA TRAFFIC SIGNAL STATISTICS  
BY COUNTY AND JURISDICTION**

County	Jurisdiction	No. of Signals in 1995	No. Signals in 2000	Increase in No. of Signals	2000 Caltrans- Owned Signals
Alameda	Alameda	68	75	10%	16
	Albany	-	15	-	9
	Berkeley	122	124	2%	17
	Dublin	21	42	100%	7
	Emeryville	18	32	78%	9
	Fremont	116	182	57%	45
	Hayward	77	131	70%	40
	Livermore	41	87	112%	21
	Newark	29	37	28%	3
	Oakland	550	598	9%	9
	Piedmont	39	-	-	-
	Pleasanton	76	87	14%	-
	San Leandro	55	87	58%	32
	Union City	30	49	63%	4
	Unincorporated	-	96	-	-
	<i>County Subtotal</i>	<i>1,242</i>	<i>1,642</i>	<i>32%</i>	<i>212</i>
Contra Costa	Antioch	50	71	42%	8
	Brentwood	8	24	200%	10
	Clayton	8	8	0%	-
	Concord	128	144	13%	5
	Danville	43	53	23%	7
	El Cerrito	9	20	122%	11
	Hercules	7	9	29%	1
	Lafayette	14	22	57%	2
	Martinez	25	31	24%	7
	Moraga	7	8	14%	-
	Oakley	0	4	-	4
	Orinda	12	17	42%	2
	Pinole	14	25	79%	8
	Pittsburg	32	45	41%	4
	Pleasant Hill	35	38	9%	3
	Richmond	100	133	33%	29
	San Pablo	30	28	-7%	2
	San Ramon	51	61	20%	6
	Walnut Creek	84	93	11%	12
	Unincorporated	-	84	-	1
	<i>County Subtotal</i>	<i>657</i>	<i>918</i>	<i>40%</i>	<i>122</i>

**BAY AREA TRAFFIC SIGNAL STATISTICS  
BY COUNTY AND JURISDICTION**

County	Jurisdiction	No. of Signals in 1995	No. Signals in 2000	Increase in No. of Signals	2000 Caltrans- Owned Signals
Marin	Belvedere	0	0	0%	-
	Corte Madera	12	15	25%	2
	Fairfax	-	3	-	-
	Larkspur	-	8	-	1
	Mill Valley	5	7	40%	1
	Novato	25	38	52%	17
	Ross	1	2	100%	-
	San Anselmo	12	12	0%	-
	San Rafael	69	91	32%	7
	Sausalito	-	11	-	2
	Tiburon	-	11	-	11
	Unincorporated	-	14	-	1
	<i>County Subtotal</i>	124	212	71%	42
Napa	American Canyon	0	2	-	2
	Calistoga	1	1	0%	1
	Napa	25	64	156%	20
	St Helena	-	3	-	3
	Yountville	0	1	-	1
	Unincorporated	-	11	-	11
	<i>County Subtotal</i>	26	82	215%	38
San Francisco	San Francisco	1,025	1,081	5%	14
	<i>County Subtotal</i>	1,025	1,081	5%	14
San Mateo	Atherton	3	6	100%	2
	Belmont	7	18	157%	9
	Brisbane	8	9	13%	-
	Burlingame	14	31	121%	18
	Colma	7	11	57%	5
	Daly City	33	58	76%	22
	East Palo Alto	-	8	-	1
	Foster City	22	22	0%	3
	Half Moon Bay	4	4	0%	4
	Hillsborough	-	-	-	-
	Menlo Park	23	49	113%	22
	Millbrae	5	12	140%	8
	Pacifica	4	11	175%	6
	Portola Valley	0	0	0%	-
	Redwood City	58	90	55%	25
	San Bruno	10	31	210%	19
	San Carlos	23	25	9%	11
	San Mateo	63	98	56%	29
	South San Francisco	53	80	51%	20
	Woodside	1	3	200%	2
	Unincorporated	-	5	-	5
	<i>County Subtotal</i>	338	571	69%	211

**BAY AREA TRAFFIC SIGNAL STATISTICS  
BY COUNTY AND JURISDICTION**

County	Jurisdiction	No. of Signals in 1995	No. Signals in 2000	Increase in No. of Signals	2000 Caltrans- Owned Signals
Santa Clara	Campbell	37	42	14%	3
	Cupertino	46	54	17%	8
	Gilroy	24	33	38%	14
	Los Altos	13	26	100%	1
	Los Altos Hills	-	-	-	-
	Los Gatos	25	33	32%	6
	Milpitas	48	79	65%	16
	Monte Serreno	0	2	-	-
	Morgan Hill	19	25	32%	4
	Mountain View	50	91	82%	14
	Palo Alto	85	128	51%	18
	San Jose	664	950	43%	38
	Santa Clara	101	147	46%	14
	Saratoga	8	19	138%	8
	Sunnyvale	116	148	28%	18
	Unincorporated	-	3	-	-
	<i>County Subtotal</i>	<i>1,236</i>	<i>1,780</i>	<i>44%</i>	<i>162</i>
Solano	Benicia	9	13	44%	3
	Dixon	1	1	0%	-
	Fairfield	50	76	52%	9
	Rio Vista	-	1	-	1
	Suisun City	5	9	80%	4
	Vacaville	48	68	42%	6
	Vallejo	120	135	13%	34
	Unincorporated	-	1	-	-
	<i>County Subtotal</i>	<i>233</i>	<i>304</i>	<i>30%</i>	<i>57</i>
Sonoma	Cloverdale	2	3	50%	1
	Cotati	5	8	60%	3
	Healdsburg	10	13	30%	-
	Petaluma	39	57	46%	12
	Rohnert Park	14	34	143%	4
	Santa Rosa	150	187	25%	16
	Sebastopol	6	10	67%	8
	Sonoma	0	12	-	12
	Windsor	6	18	200%	5
	Unincorporated	-	35	-	6
	<i>County Subtotal</i>	<i>232</i>	<i>377</i>	<i>63%</i>	<i>67</i>
<b>Total</b>		<b>5,113</b>	<b>6,967</b>	<b>36%</b>	<b>925</b>